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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/812,920	03/31/2004	Satoru Kikuchi	04044	5700
23338	7590 04/14/2006	EXAMINER		
DENNISON 1727 KING S	, SCHULTZ, DOUGHI	BENNETT	BENNETT, ZAHRA I	
SUITE 105 ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			2875	

DATE MAILED: 04/14/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
055 - 4-45 - 000000000000000000000000000	10/812,920	KIKUCHI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Zahra Bennett	2875				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION (6(a)). In no event, however, may a reply be timil apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status		•				
1) Responsive to communication(s) filed on 17 M	arch 2004 and 12 October 2005.	•				
3) Since this application is in condition for allowar	•	osecution as to the merits is				
closed in accordance with the practice under E						
Disposition of Claims						
4)⊠ Claim(s) <u>1 and 4-6</u> is/are pending in the applica	ation.	•				
4a) Of the above claim(s) is/are withdray	vn from consideration.					
5) Claim(s) is/are allowed.		•				
6)⊠ Claim(s) <u>1 and 4-6</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
<u> </u>	_					
9) The specification is objected to by the Examine		a by the Everniner				
10)⊠ The drawing(s) filed on 31 March 2004 is/are: a						
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correct		_				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Oπice	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119(a)-(d) or (f).				
1 Certified copies of the priority documents	s have been received.					
2. Certified copies of the priority documents	s have been received in Applicat	ion No				
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
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Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) Notice of Informal F 6) Other:	ratent Application (PTO-152)				
Paper No(s)/Mail Date S. Patent and Trademark Office	J)					

Art Unit: 2875

DETAILED ACTION

Claim Objections

Claim 1 is objected to because of the following informalities: In line 6, the word 'an' should be in between on and upper. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Lin (US Publication 2004/0252509).

With respect to claim 1, Lin teaches a light emitting diode device comprising:

a circuit substrate (Figure 8: 32);

a lower reflection film (71) provided on an upper surface of the circuit substrate;

an LED (51) mounted on an upper surface of the circuit substrate (Column 18,

lines 36-39);

a resin layer (4) encapsulating the LED;

Art Unit: 2875

an upper reflection layer (6, above 51) being disposed opposite the LED, and being constructed and arranged to transmit a portion of light rays in a forward direction and to reflect another portion of the light rays emitted by the LED ([0012] lines 8-21)

wherein the light rays reflected by the upper reflection layer (6, above 51) are further reflected by the lower reflection film (71) on the circuit substrate, and the light rays reflected by the lower reflection film are discharged in the forward direction to be diffused ([0035] lines 1-7).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lin as applied to claim 1 above, and further in view of Ohtsuki (US Patent 6,036,328).

With respect to claim 4, Lin does not teach a transparent holding plate. Ohtsuki teaches the upper reflection layer (Figures 22(a-b): 95) comprising of a transparent holding plate (Figures 23(a-c): 50), and an upper reflection film (95) provided between the upper surface of the resin layer (80) and the underside of the holding plate (50). It would have been obvious to one of ordinary skill at the time of the invention to include a holding plate on the device of Lin for the benefit of directing light which is exiting the device, as taught by Ohtsuki.

Art Unit: 2875

With respect to claim 5, Lin does not teach the upper reflection film being formed by metal plating. Ohtsuki teaches that the upper reflection film is formed by metal plating (Column 21, lines 43-49). It would have been obvious to one of ordinary skill at the time of the invention to use metal plating on the upper reflection film of Lin for the benefit of creating a highly reflective surface, as taught by Ohtsuki.

With respect to claim 6, Lin does not teach that the upper reflection layer has an area smaller than the resin layer. Ohtsuki further teaches that the upper reflection layer (Figure 23 (b): 95) has an area smaller than an area of the resin layer (50). It would have been obvious to one of ordinary skill at the time of the invention to make the area of the upper reflection layer smaller than the area of the resin layer. One would have been motivated to modify the device of Lin for the benefit of reflecting all of the light exiting the resin layer, as taught by Ohtsuki.

Response to Arguments

Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

Art Unit: 2875

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zahra Bennett whose telephone number is 571-272-2267. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Renee Luebke can be reached on 571-272-2009. The fax phone number for the organization where this application or proceeding is assigned is 571-273-2267.

Art Unit: 2875

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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ALI ALAVI PRIMARY EXAMINER

Page 6